

# CURRICULUM VITAE

## Mir Nurul Hasan Mahmud

Senior Scientific Officer  
Irrigation and Water Management Division,  
Bangladesh Rice Research Institute,  
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## PERSONAL DATA

**Name** : Mir Nurul Hasan Mahmud  
**Date of birth** : 13<sup>th</sup> October 1980  
**Nationality** : Bangladeshi (By birth)  
**Religion** : Islam (Sunni)  
**Sex** : Male  
**Marital status** : Married  
**Children** : One Son (Date of Birth 16 July 2010)

**LANGUAGE** : Bengali (mother tongue);  
English (fluent),  
IELTS Overall Band Score- 6.5,  
Test Date: 24 April 2014

**COMPUTER LITERACY** : MS Office 2010, Operating Software Win 7,  
Photoshop, Video Editing, Internet Browsing  
E-mail Software, Data Analysis.

## EDUCATION

Name of the Examination	Board/University	Passing year	Division/ Class	Marks Obtained (%)
Doctor of Philosophy in Environmental Science	Murdoch University, Western Australia	Started on 21 <sup>st</sup> July 2014	-	-
Master of Science in Irrigation and Water Management	Bangladesh Agricultural University, Mymensingh	June 2012	A <sup>-</sup>	3.64 Out of 4
Bachelor of Science in Agricultural Engineering	Bangladesh Agricultural University, Mymensingh	2002 (Held in 2004)	First	63.74
HSC	Dhaka	1997	First	65.7
SSC	Dhaka	1995	First	81.5

## TRAINING RECEIVED

No.	Name of the course	Institute/Location	Duration
1	Foundation Training Course for NARS Scientists	Bangladesh Academy of Rural Development	4 months
2	One Month Rice Production Training Course	Bangladesh Rice research Institute, Gazipur	1 months
3	Seed Quality Management	Bangladesh Agricultural Research Council, Dhaka	3 Days
4	Breeder Seed Production and Preservation of Rice	Bangladesh Rice research Institute, Gazipur	3 Days
5	Hybrid Rice Development and Seed Production	Bangladesh Rice research Institute, Gazipur	5 Days
6	Induction Training Course	Bangladesh Agricultural Development Corporation, Dhaka	12 Days
7	Basics of MS Office	Graduate Training Institute, Bangladesh Agricultural University, Mymensingh	14 Days
8	On Farm Water Management	Rural Development Academy, Bogra	3 Days

## PROFESSIONAL SKILLS

- Research program development, execution and reporting of research results.
- Data analysis and scientific report writing.

## WORK EXPERIENCE

1. 22 November 2012 to present, **Senior Scientific Officer** (Irrigation and Water Management), Bangladesh Rice Research Institute, Gazipur.
2. 12 November 2007-21 November 2012, **Scientific Officer** (Irrigation and Water Management), Bangladesh Rice Research Institute, Regional Station, Barisal.
  - Surface water utilization through water and soil salinity monitoring;
  - Looking into water requirements for rice production in Barisal region applying AWD irrigation methods;
  - Finding suitable fertilization methods (Prilled urea, USG, Fertigation) under consumptive use water application.

3. 25 September 2006-10 November 2007, **Assistant Engineer**, Bangladesh Agricultural Development Corporation, Patuakhali Irrigation Zone. Responsibilities was to-
  - Survey and monitoring of surface water quality and ground water depth;
  - Provide irrigation facilities to the farmers to increase crop production;
  - Construction of hydraulic structures and re-excavation of canals;
  - Collect data on irrigation equipments;
  - Conduct training and demonstration;
  - Forming water groups among the farmers.
  
4. 23 July 2006-24 September 2006, **Agricultural Engineer**, Agricultural Engineering Technologies Extension Project (AETEP), Department of Agricultural Extension, Poba, Rajshahi.
  - Provide agricultural machineries to the farmers to minimize crop production cost;
  - Conduct training and demonstration of agricultural machineries.
  
5. 16 May 2005-30 June 2006, **Agricultural Engineer**, Popularizing Agricultural Machineries Project (PAMP), Bangladesh Rice Research Institute.
  - Conduct training and demonstration on operation and maintenance of BRRI developed agricultural machineries to the farmers;
  - Collect data and analyzing the research results on the performance of BRRI farm machineries.
  - Develop network and manufacturer, farmers, researchers and extension workers.

## **MEMBERSHIP OF PROFESSIONAL BODIES**

1. Member: The Institute of Engineers, Bangladesh (IEB)
2. Member: Bangladesh Association for the Advancement of Science (BAAS)
3. Member: Bangladesh Association of Agricultural Engineers (BSAE)

## LIST OF PUBLICATIONS

### (a) Scientific Journals

#### Principal Author

1. **Mahmud, M. N. H.**, M. Sh. Islam, M. A. Sattar and M. A. Saleque. 2010. Assessment of Water and Soil Salinity for Boro Cultivation in Coastal Region of Barisal. *Bangladesh Rice J.* 15 (1): 63-70.
2. **Mahmud M. N. H.**, M. A. Mojid, M. A. Rashid and M. A. Rahman. 2012. Performance Evaluation of a Centrifugal Pump Under Different Suction Lifts. *Eco-friendly Agril. J.* 5(09):140-145.
3. **Mahmud M. N. H.**, M. A. Rashid , M. U. Ahmmed and M. Adil. 2012. Water and Soil Salinity Monitoring in the Coastal Region of Barisal. *Eco-friendly Agril. J.* 5(09):146-152.

#### Co-author

1. Ziauddin, A. T. M. and **M. N. H. Mahmud**. 2009. An Improved Rickshaw with Modified Driving Sprocket and Pedaling Lever. *Journal of Agricultural Engineering. The Institute of Engineers, Bangladesh.* 36/AE: 23-27.
2. Saleque, M. A., **M. N. H. Mahmud**, A. Khatun, M. M. Haque, A. T. M. S. Hossain and S. K. Jaman. 2009. Soil Qualities of Saline and Non-saline Deltas of Bangladesh. *Bangladesh Rice J.* 14 (1 & 2): 99-111.
3. Hasan, M. R., M. A. Islam, F-T. Zohara, M .S. Zahan and **M. N. H. Mahmud**. 2012. Optimizing Sowing Date of Morpho-Physiological Traits in Direct Seeding and Transplanting Methods. *Eco-friendly Agril. J.* 5(09):162-167.

4. Hasan, M. R., U. Sarker, M. A. Hossain, K.M. K. Huda, M. A. K. Mean, T. Hossain, M.S. Zahan and **M. N. H. Mahmud**. 2012. Genetic Diversity in Micronutrient Dense Rice And Its Implication in Breeding Program. *Eco-friendly Agril. J.* 5(09):168-174.
5. Hasan M. R., U. Sarker, M. A. K. Mean, T. Hossain and **M. N. H. Mahmud**. 2012. Genetic Variation in Micronutrient Dense Rice and Its Implication in Breeding For Higher Yield. *Eco-friendly Agril. J.* 5(09):175-182.
6. Islam M. A., U. Sarker, M. A. K. Mean, M. R. Hasan and **M. N. H. Mahmud**. 2012. Genotype×Environment (Fertilizer Dose) Interaction and Stability Analysis of Hybrid Seed Production of Rice (*Oryza sativa* L.). *Eco-friendly Agril. J.* 5(09):183-185.
7. Islam M. Sh., **M. N. H. Mahmud**, F. Rahman, and M. A. Saleque. 2013. Farmer's Participatory Site Specific Nutrient Management in Tidal Flooded Soil for High Yielding Aus Rice. *Bangladesh Rice J.* 17(1&2): 1-6.
8. Paul S., D. Hossain, **M. N. H. Mahmud**, P. L. C. Paul, A. K. M. L. Rahman, M. K. Saha. 2014. Quality Degradation Trend of Water in the Buriganga River. *Bangladesh Journal of Progressive Science & Technology* 12(1):011-016.
9. Ahmmed M. U., D. Roy, **M. N. H. Mahmud**. 2014. Feasibility study of a Rice Transplanter in Mechanized Agriculture by Analyzing Operation Cost and Performance Evaluation. *Journal of Agricultural Engineering. The Institute of Engineers, Bangladesh.* 41/AE(1): 29-36.
10. Roy D., M. U. Ahmmed, **M. N. H. Mahmud**. 2014. Water Management Technologies for Sustainable Rice Cultivation Under Changing Climate. *Journal of Agricultural Engineering. The Institute of Engineers, Bangladesh.* 41/AE(1): 43-52.

## (b) Books

### Co-author

1. Kamal, M. M., M. Sh. Islam, A. Khatun, N. Sharma, M. N. H. Mahmud, M. A. Saleque. 2009. *আবগুণ্ড অলু পুঁলি কলক চাঁকুঁয় গুঁলুগুঁ*. Regional Station Barisal. BRRI.
2. Islam M. Sh., N. Sharma, **M. N. H. Mahmud**, M. M Kamal, M. A. Saleque. 2010. *আবগুণ্ড অলু পুঁলি কলক লুঁলু*. Regional Station Barisal, BRRI.

## (c) Seminar

### Principal Author

1. **Mahmud, M. N. H.**, M. Sh. Islam, M. A. Sattar and M. A. Saleque. 2010. Suitability Assessment of Water and Soil Salinity for Boro Cultivation in Coastal Region of Barisal. Paper Presented in Thursday Seminar at BRRI, Gazipur on 25 June, 2009

### Co-author

1. Sattar M. A., M. A. Rashid, M. N. Hasan, H. R. Molla, A. K. Khan, S. Parveen, D. Roy and **M. N. H. Mahmud**. 2009. AWD Technology for Water Saving in Boro Rice Production for the Selected Locations. **National Workshop Proceedings on AWD Technology for Rice Production in Bangladesh held on 15 July 2009 in Collaboration with BRRI, IRRI and KGF.**

## (d) Abstracts

### Principal Author

1. **Mahmud, M. N. H.**, M. Sh. Islam, M. A. Sattar and M. A. Saleque. 2009. Suitability Assessment of Water and Soil Salinity for Boro Cultivation in Coastal Region of Barisal. P. 49. Abstracts of 21<sup>st</sup> Bangladesh Science Conference, Bangladesh Association for the

Advancement of Science (BAAS), Bangladesh Agricultural Research Institute. 18-20 February, 2009, Gazipur, Bangladesh.

### **Co-author**

1. Saleque, M. A., **M. N. H. Mahmud**, A. Khatun and S. K. Jaman. 2008. Soil Characteristics of Saline and Non-saline Deltas of Bangladesh. P. 75. Abstracts of International Symposium on Climate Change & Food Security in South Asia. 25-30 August, 2008, Dhaka, Bangladesh.

### **(e) Radio Talk in “Krishikotha” Broadcasted from Bangladesh Betar, Barisal**

1. Seedbed Preparation and Seedling Management of Boro Rice (in Bengali), 26 July 2010.

## **Research achievements**

### **(i) No of Research Program- 10**

#### **(a) Research Program Developed-04**

1. Study on tidal river water quality for irrigation in coastal region of Barisal.
2. Impacts of fertigation through flood irrigation by using tank and hose pipe on nitrogen up take and yield of rice.
3. Exploring multi use of ground water and fuel source under pressure well system in Borhanuddin upazilla of Bhola district.
4. Performance evaluation of a centrifugal pump under different suction lifts

**(c) Research Program Executed-03**

1. Assessment of water resource availability for irrigation to increase rice productivity in tidal areas of Barisal region.
2. Effect of irrigation practices and fertilization method for transplanted rice by using AWD technology under different depths in BRRI regional station Barisal
3. Demonstration of Alternate Wetting and Drying (AWD) technology for water saving in rice production in selected locations in Bangladesh

**(b) Research Program Supervised-03**

1. Stability analysis of BRRI varieties
2. Nutrient accumulation through tidal sediment and their availability to rice plant
3. Crop management options for rice cultivation in coastal saline soils

**NAME OF REFEREES**

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**(Mir Nurul Hasan Mahmud)**